FIG. 1 prior art

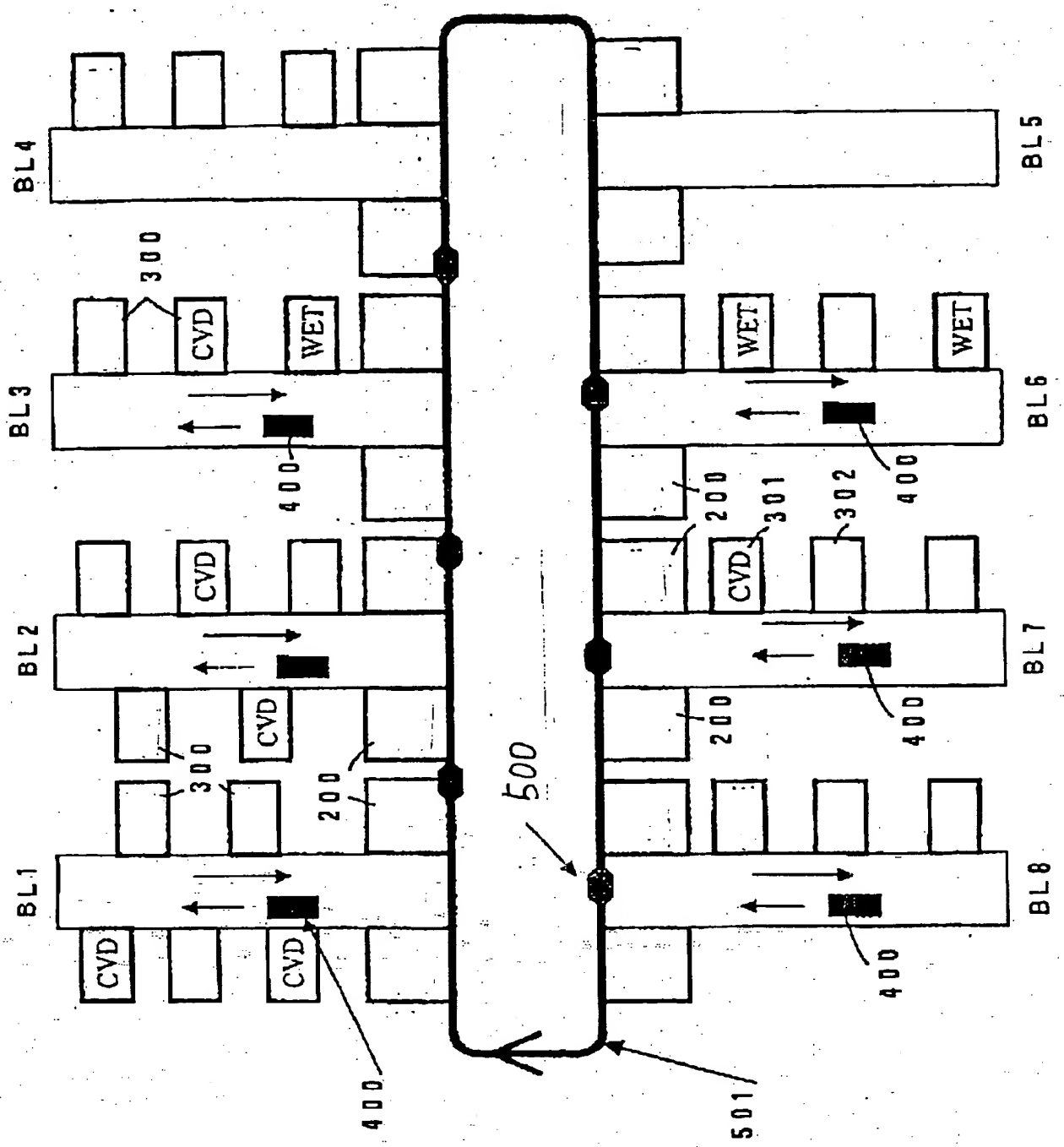


FIG. 2 prior art

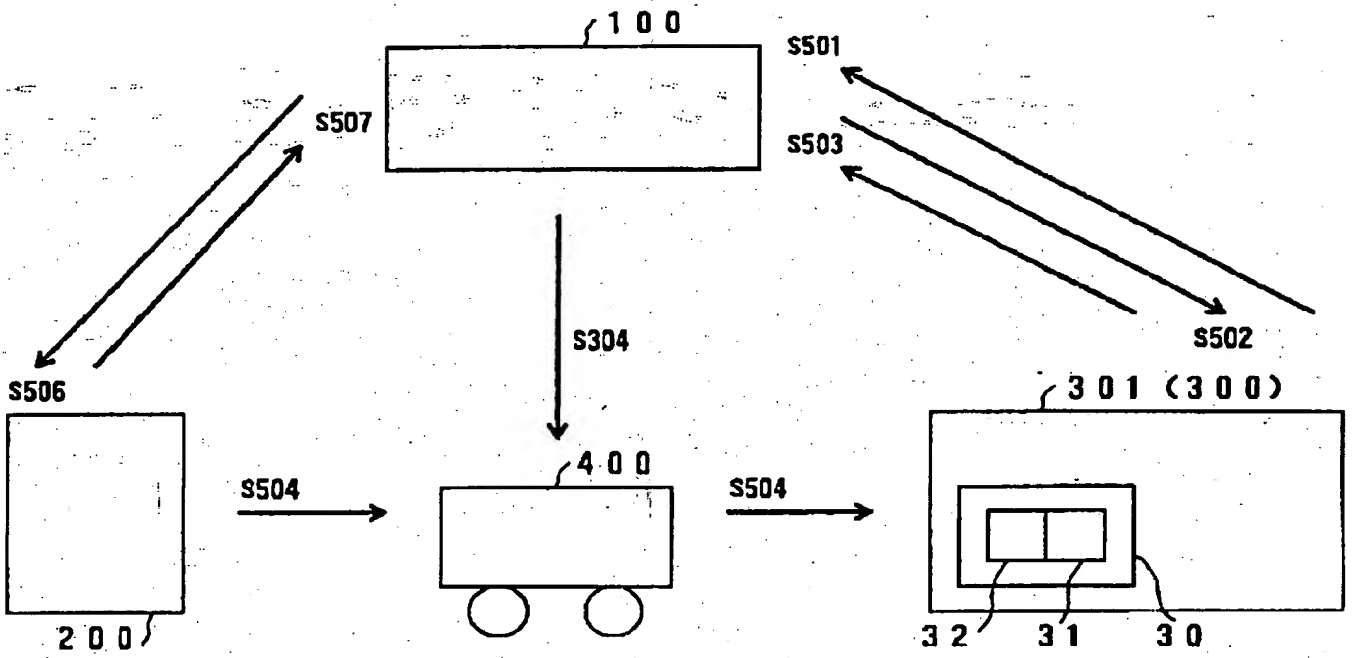


FIG. 3

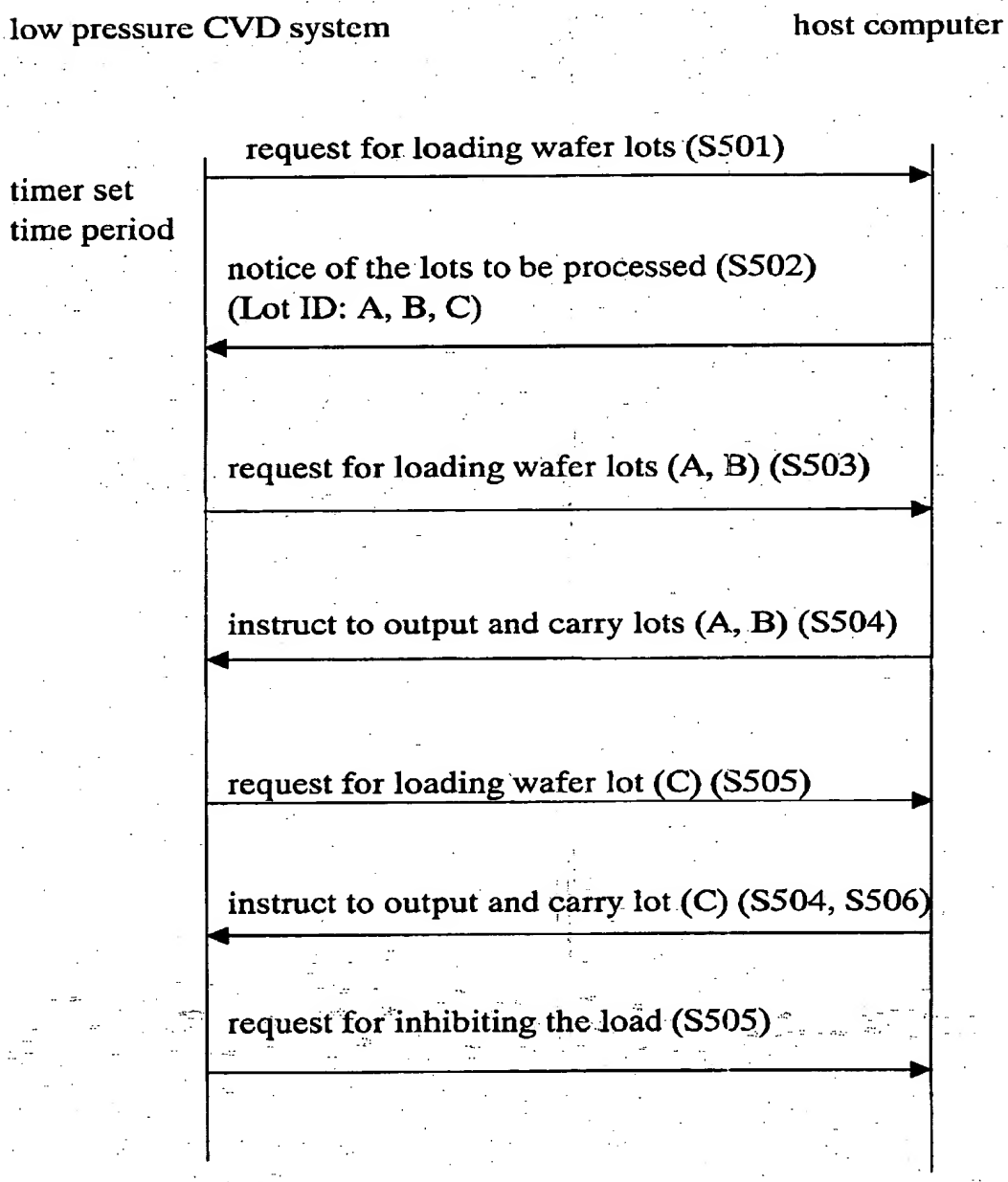


FIG. 4

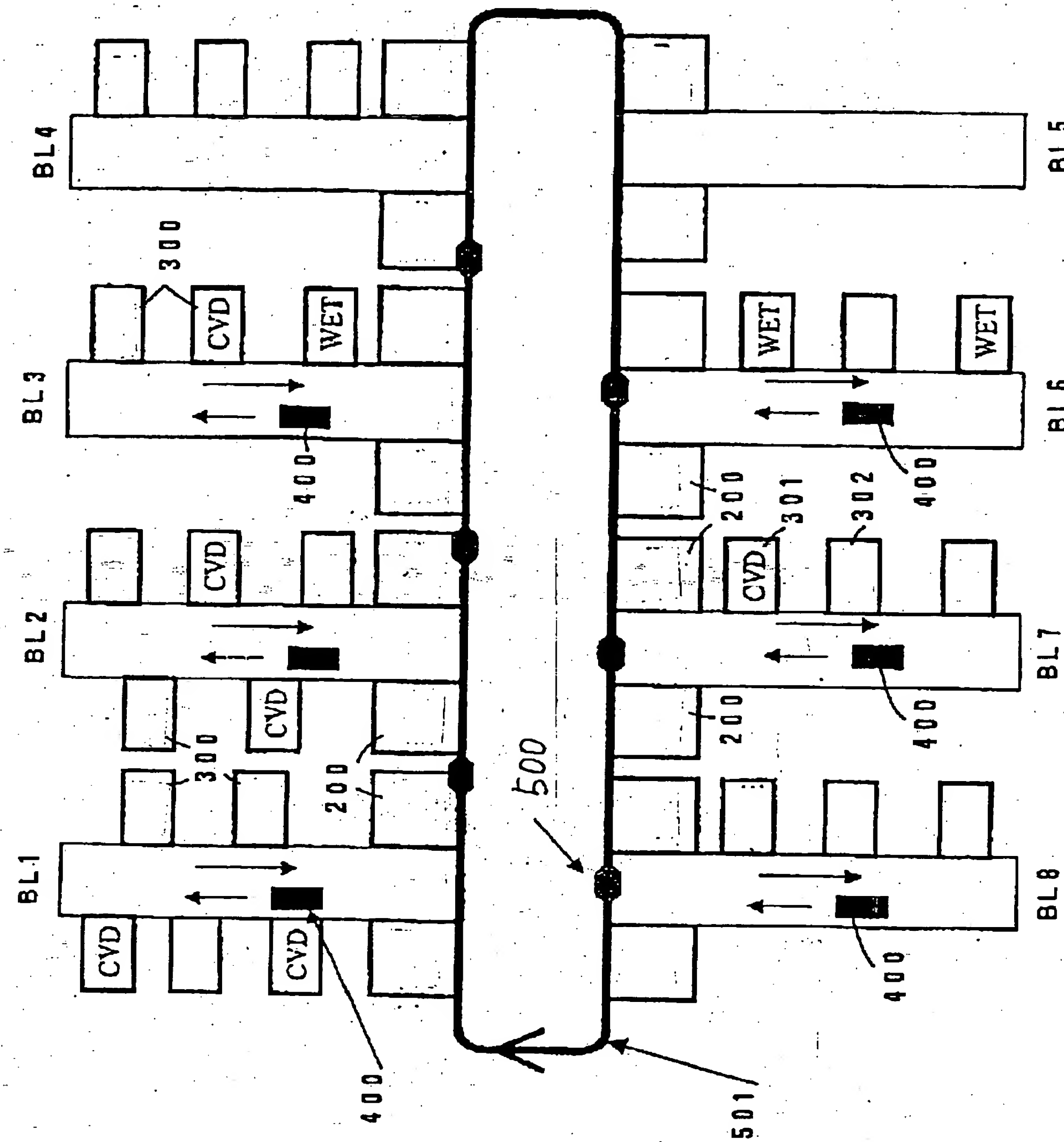

BL1
BL2
BL3
BL4
BL5
BL6
BL7
BL8
CVD
WET
200
300
301
302
400
500
501

FIG. 5

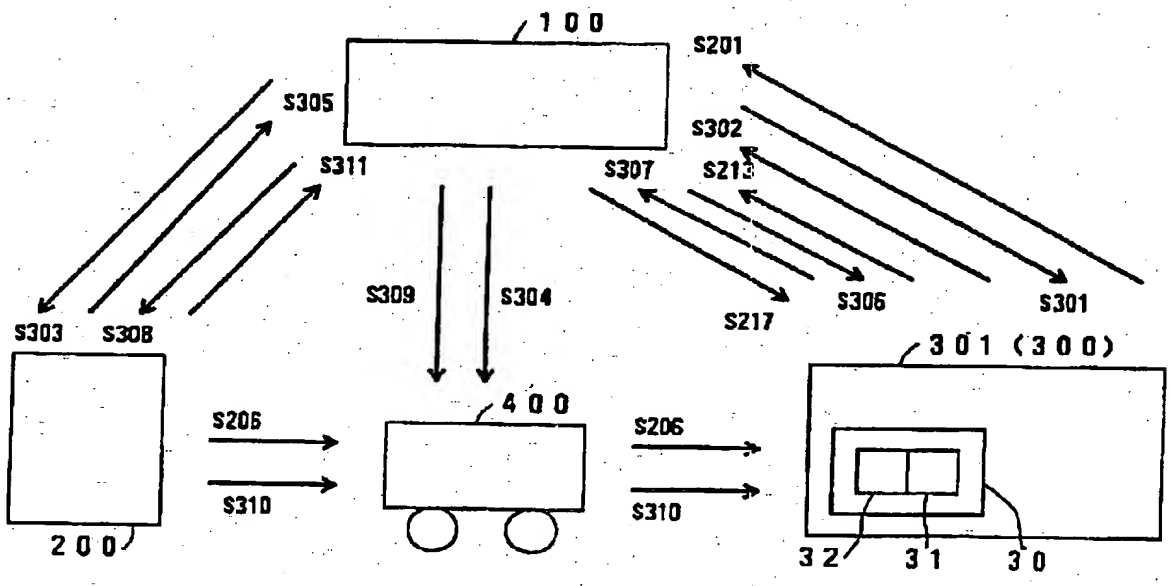

100
S201
S305
S302
S311
S307
S213
S309
S304
S306
S301
S217
S303
S308
301 (300)
400
S206
S206
S310
S310
200
32
31
30

FIG. 6

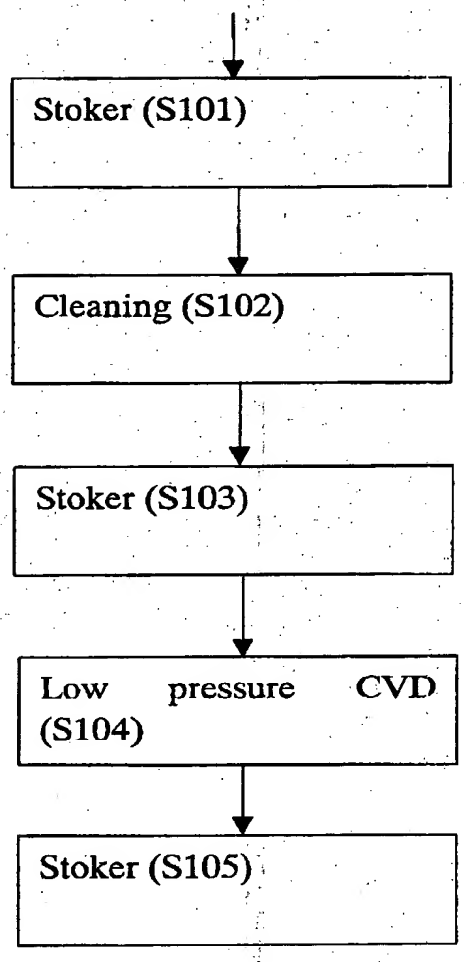


FIG. 7

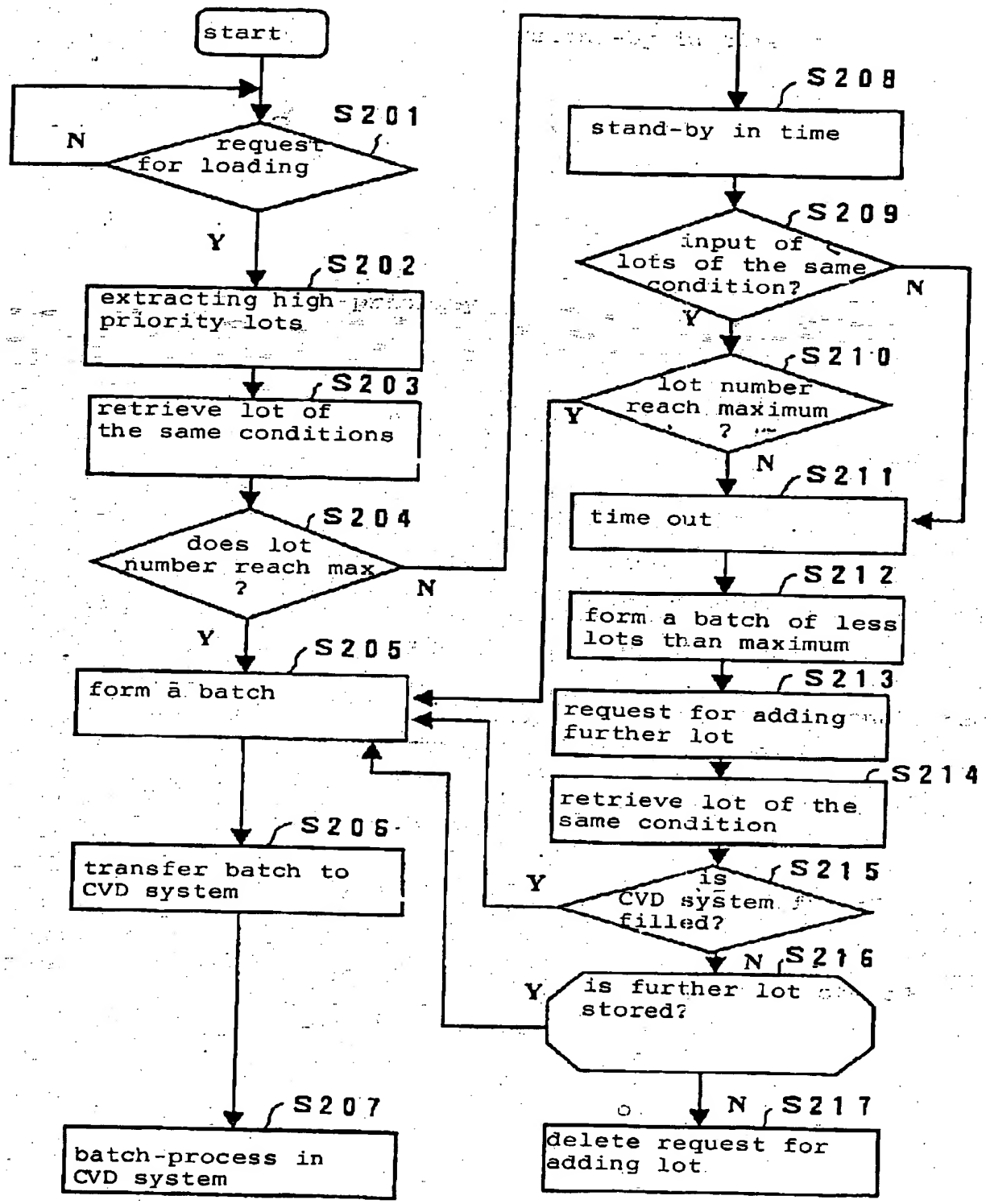

start
S201
request for loading
N
Y
S202
extracting high priority lots
S203
retrieve lot of the same conditions
S204
does lot number reach max ?
N
Y
S205
form a batch
S206
transfer batch to CVD system
S207
batch-process in CVD system
S208
stand-by in time
S209
input of lots of the same condition?
N
Y
S210
lot number reach maximum ?
Y
N
S211
time out
S212
form a batch of less lots than maximum
S213
request for adding further lot
S214
retrieve lot of the same condition
S215
is CVD system filled?
Y
N
S216
is further lot stored?
Y
N
S217
delete request for adding lot

FIG. 8

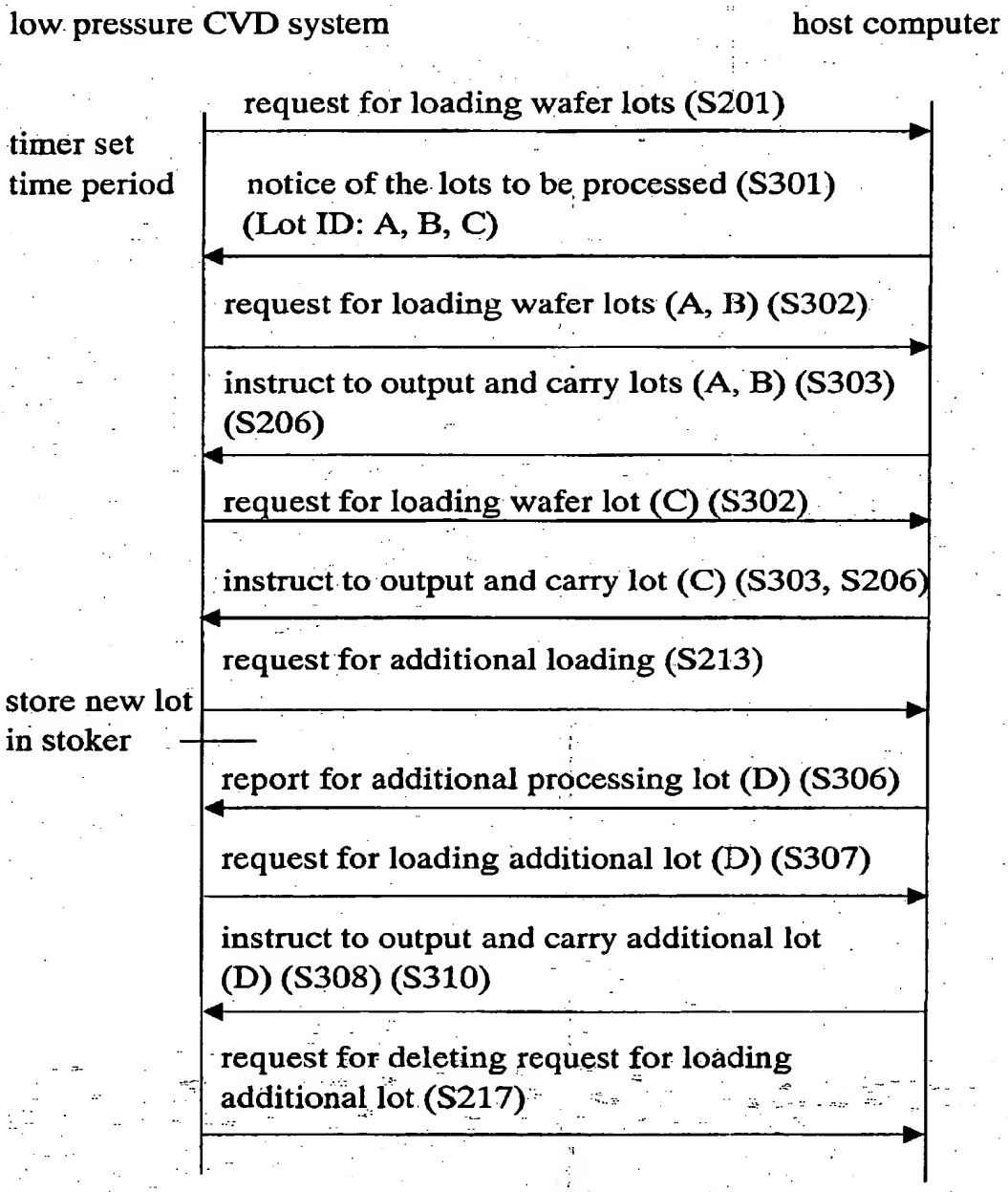
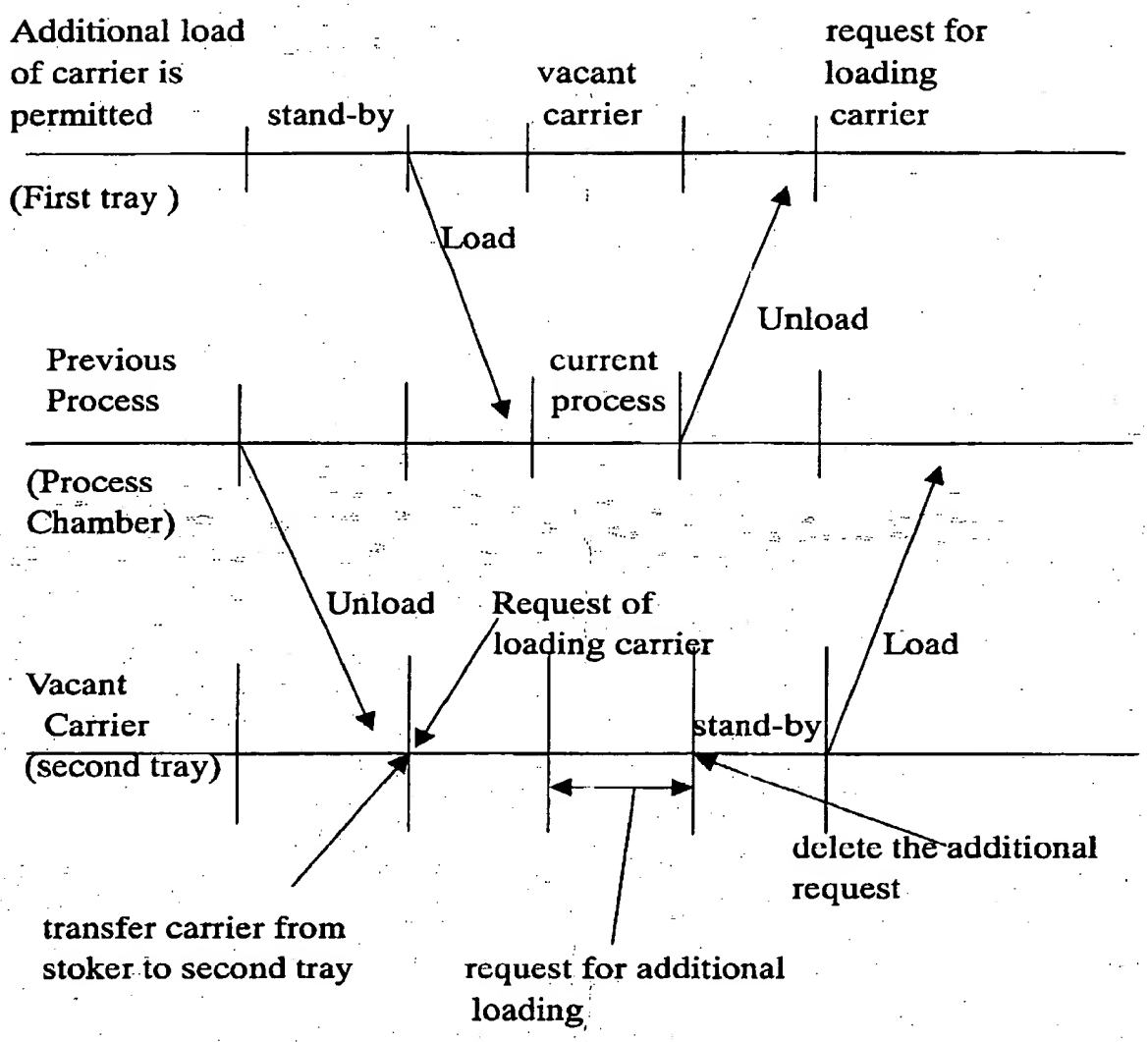

low pressure CVD system
host computer
request for loading wafer lots (S201)
timer set time period
notice of the lots to be processed (S301) (Lot ID: A, B, C)
request for loading wafer lots (A, B) (S302)
instruct to output and carry lots (A, B) (S303) (S206)
request for loading wafer lot (C) (S302)
instruct to output and carry lot (C) (S303, S206)
request for additional loading (S213)
store new lot in stoker
report for additional processing lot (D) (S306)
request for loading additional lot (D) (S307)
instruct to output and carry additional lot (D) (S308) (S310)
request for deleting request for loading additional lot (S217)

FIG. 9


Additional load of carrier is permitted
stand-by
vacant carrier
request for loading carrier
(First tray)
Load
Unload
Previous Process
current process
(Process Chamber)
Unload
Request of loading carrier
Load
Vacant Carrier (second tray)
stand-by
delete the additional request
transfer carrier from stoker to second tray
request for additional loading